

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
06005/37295Serial No.
10/006,955Applicant
JunkFiling Date
Nov. 5, 2001Group
2857

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*Examiner Initials	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
elk	4,029,122	06/14/77	Jaegtnes	137	551	
	4,313,465	02/02/82	Holzem et al.	137	599	
	4,376,450	03/15/83	Fayfield et al.	137	554	
	4,523,286	06/11/85	Koga et al.	364	494	
	4,542,649	09/24/85	Charbonneau et al.	73	168	
	4,555,766	11/26/85	Wright	364	426	
	4,556,956	12/03/85	Dickenson et al.	364	162	
	4,590,963	06/27/86	Gardner et al.	137	554	
	4,615,722	10/07/86	Steffan et al.	65	158	
	4,617,960	10/21/86	More	137	554	
	4,660,416	04/28/87	Charbonneau et al.	73	168	
	4,672,529	06/09/87	Kupersmit	364	130	
	4,690,003	09/01/87	McNennamy et al.	73	862.32	
	4,693,113	09/15/87	McNennamy et al.	73	168	
	4,694,390	09/15/87	Lee	364	165	
	4,694,391	09/15/87	Guttag et al.	364	200	
	4,712,071	12/08/87	Charbonneau et al.	324	415	
	4,742,713	05/10/88	Abe et al.	73	620	
	4,831,873	05/23/89	Charbonneau et al.	73	168	

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Edward Raymond

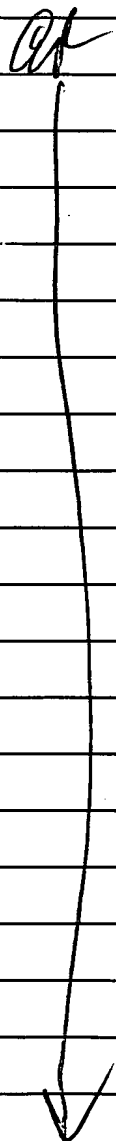
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*Examiner Initials	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
	4,833,593	05/23/89	Takeuchi et al.	364	191	
	4,858,103	08/15/89	Takeuchi et al.	364	174	
	4,908,774	05/13/90	Lund et al.	364	507	
	4,908,775	05/13/90	Palusamy et al.	364	508	
	4,916,628	04/10/90	Kugler	364	492	
	4,926,903	05/22/90	Kawai	137	554	
	4,949,288	08/14/90	Bookout	364	558	
	4,976,144	12/11/90	Fitzgerald	73	168	
	4,977,778	12/18/90	Nafziger et al.	73	597	
	4,980,825	12/25/90	Tootell et al.	364	580	
	5,000,040	03/19/91	Charbonneau et al.	73	168	
	5,086,273	02/04/92	Leon	324	207.17	
	5,109,692	05/05/92	Fitzgerald	73	168	
	5,140,263	08/18/92	Leon	324	207.17	
	5,154,080	10/13/92	Hill et al.	73	597	
	5,159,835	11/03/92	Nafziger et al.	73	584	
	5,197,328	03/30/93	Fitzgerald	73	168	
	5,198,973	03/30/93	Steutermann	364	167.01	
	5,228,342	07/20/93	McShane	73	597	
	5,233,542	08/03/93	Höhner et al.	364	551.01	

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<i>EP</i>	5,251,148	10/05/93	Haines et al.	364	509	
	5,253,185	10/12/93	Mutchler et al.	364	551.01	
	5,272,647	12/21/93	Hayes	364	551.01	
	5,320,123	06/14/94	Corso et al.	137	1	
	5,329,465	07/12/94	Arcella et al.	364	551.01	
	5,329,956	07/19/94	Marriott et al.	137	15	
	5,337,262	08/09/94	Luthi et al.	364	580	
	5,396,167	03/07/95	Leon	324	73.1	
	5,414,648	05/09/95	Morgan et al.	364	563	
	5,425,270	06/20/95	McDonald et al.	73	168	
	5,433,245	07/18/95	Prather et al.	137	554	
	5,451,923	09/19/95	Seberger et al.	340	310.06	
	5,475,299	12/12/95	Leon	324	73.1	
	5,477,149	12/19/95	Spencer et al.	324	418	
	5,487,302	01/30/96	Casada et al.	73	168	
	5,553,153	09/03/96	Eatwell	381	71	
	5,555,171	09/10/96	Sonehara et al.	364	424.03	
	5,557,546	09/17/96	Fukai et al.	364	551.01	
	5,564,470	10/15/96	Denmark et al.	137	554	

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at	5,586,305	12/17/96	Eidson et al.	395	500	
	5,687,098	11/11/97	Grumstrup et al.	364	551.01	
	5,838,561	11/17/98	Owen	364	152	
	5,966,679	10/12/99	Snowbarger et al.	702	105	
	6,128,541	10/03/00	Junk	700	39	
	6,192,321 B1	02/20/01	Grumstrup et al.	702	113	

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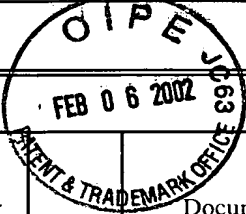
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**FOREIGN PATENT DOCUMENTS**

*Examiner Initials	Document Number	Publication Date	Country	Class	Subclass	Translation	
						Yes	No
AR	✓ 42 18 320 A1	09.12.93	DE			X	
	✓ 42 32 826 C1	10.28.93	DE				X
	✓ 0 275 629 A1	27.07.88	EP				
	✓ 0 315 391 A2	10.05.89	EP				
	✓ 0 334 698 A2	27.09.89	EP				
	✓ 0 462 432 A2	27.12.91	EP				
	✓ 0 572 245 A2	01.12.93	EP				
	✓ 0 637 713 A1	08.02.95	EP				
	✓ 0 660 017 A1	28.06.95	EP				
	✓ 0 708 389 A1	24.04.96	EP				
	✓ 2 194 648 A	09.03.88	GB				
	✓ 2 196 445 A	27.04.88	GB				
	✓ 62 229 044 A (Abstract only)	10/07/87	JP			ABS	
	✓ WO 97/16776	09.05.97	PCT				
	✓ WO 99/17177	08.04.99	PCT				

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

✓	Isermann et al., "Adaptive Control Systems," Prentice Hall, pp. 488-492 and 528-531 (1992).
✓	Anderson, "The Deviation Cycle" <i>ISA Journal</i> pp. 49-51 (1966).
✓	Charbonneau, "Early Diagnosis of Motor Operated Valve Mechanical and Electrical Degradations," The American Society of Mechanical Engineers, 84-NE-16, pp. 1-6 (1984).
✓	FIELDVUE™ Digital Valve Controller Type DVC5000 Series Bulletin 62.1:DVC5000 pp. 1-12 (1994).
✓	FIELDVUE™ Digital Valve Controller Type DVC5000 Series Instruction Manual pp. 38 (1995).
✓	FIELDVUE™ Digital Valve Controller DVC5000 Series Remotely Accessible Information Bulletin 62.1:DVC5000(S1) pp. 1-2 (1994).
✓	Prepared by Foster-Miller, Inc., "Improvement in Motor-operated Valves" <i>Electric Power Research Institute</i> (1985).
✓	Beatty, "Intelligent Valve Based Process Sensing and Control" <i>ISA</i> , 1991 pp. 1175-1185 (1991).
✓	Prepared by Burns and Roe, Inc., "Key Valves Prioritization Study" <i>Electric Power Research Institute</i> (1984).
✓	Dimmick et al., "Ultrasonic leak detection cuts valve maintenance costs" <i>Power Engineering August 1966</i> pp. 35-38 August 1986.
✓	U.S. Patent Application Serial No. 06/913,193 entitled "Motor Current Signature Analysis Method for Diagnosing Motor-Operated Devices".
✓	Skormin et al., "On-Line Diagnostics of a Self-Contained Flight Actuator," <i>IEEE Transactions on Aerospace and Electronic Systems</i> , Vol 30, No. 1, pp. 186-196, January 1994.

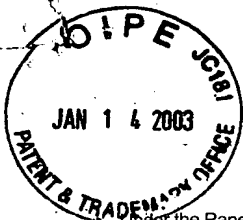
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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/006,955
				Filing Date	November 5, 2001
				Inventor	Kenneth W. Junk
				Art Unit	2857
				Examiner Name	Not Yet Assigned <i>Raymond</i>
Sheet	1	of	1	Attorney Docket No.	06005/37295

U.S. PATENT DOCUMENTS				
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code ² (if known)		
<i>CA</i>		4,885,676	12-05-1989	Zweighaft
		5,272,649	12-21-1993	Campbell et al.

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>CA</i>	A	Copy of International Search Report, dated January 3, 2003, for International Patent Application No. PCT/US02/32745, 3 pages.	

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>Raymond</i>	Date Considered	8/20/03
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